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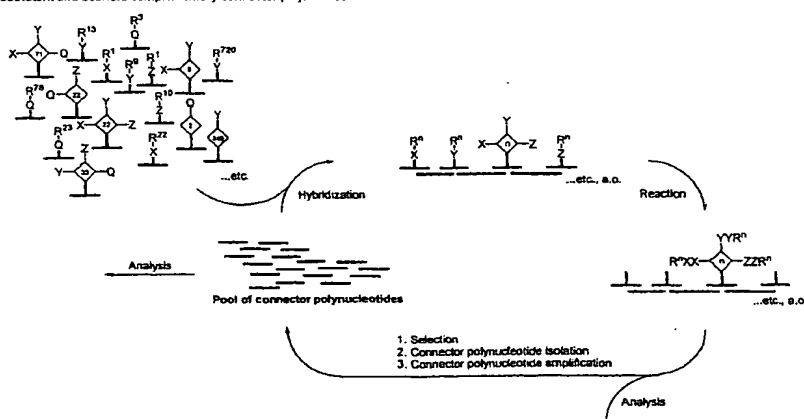
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[Continued on next page]

(54) Title: QUASIRANDOM STRUCTURE AND FUNCTION GUIDED SYNTHESIS METHODS

Library Formation, Screening and Analysis

Pool of substituent and scaffold complementary connector polynucleotides



(57) Abstract: The present invention is directed to the synthesis of molecules guided by connector polynucleotides (CPNs) capable of hybridizing to complementary connector polynucleotides (CCPNs) harbouring at least one functional entity comprising at least one reactive group. At least one of said CCPNs capable of hybridize to at least two CPNs. Each CPN will "call" for one or more CCPNs capable of hybridization to the CPN. Following the formation of a supramolecular hybridization complex comprising a plurality of CPNs and a plurality of CCPNs, the reaction of functional entity reactive groups result in the formation of a molecule comprising covalently linked functional entities. The formation of the molecule involves the transfer of functional entities from one or more "donor CCPNs" to at least one "acceptor CCPN" with which the transferred functional entities were not associated prior to the transfer.



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, CAB Data, BIOSIS, EPO-Internal, EMBASE

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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